	Applicati n N .	Applicant(s)	
Notice of Allematica	10/734,075	MULE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	PHAN T.H. PALMER	2874	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT ROOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not inc	luded
1. This communication is responsive to 12/11/2003.			· (
2. The allowed claim(s) is/are 1-19.			
3. The drawings filed on 11 December 2003 are accepted by	the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority unal ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application	ı No	ication from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a ENT of this application.	a reply complying with the	requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAI	MINER'S AMENDMENT o declaration is deficient	r NOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted		
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached :	
1) hereto or 2) to Paper No./Mail Date	The state of the s	(110-040) attached	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or i	n the Office action of	
Identifying indicia such as the application number (see 37 CFR 1	84(c)) should be written on the	drawings in the front (not t	the back) of
11 Ul Uning Sp. 1-1-1-1	ie neader according to 37 CFR	1.121(d).	•
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIOL	RIAL must be submitted LOGICAL MATERIAL.	l. Note the
			in the second
Attachment(s) 1. M Notice of References Cited (DTO 200)	- -		
1. Notice of References Cited (PTO-892)	· · · · · · · · · · · · · · · · · · ·	rmal Patent Application (P	TO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./M	nmary (PTO-413), lail Date	in the second of
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	•	mendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's S	tatement of Reasons for A	llowance
of Biological Material	9. 🔲 Other		
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Art Unit: 2874

EXAMINER'S AMENDMENT Andt / PTHP

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: in claim 11, on line 7, "an second cladding layer " should be changed to --- a second cladding layer ".

CONTACT INFORMATION

2. The following is an examiner's statement of reasons for allowance: the claims are allowable over prior art of record, because none of the references in alone or in combination discloses:

A device or an optical interconnect layer or a method for monolithically fabricating, comprising:

an optical interconnect layer including:

- a first cladding layer;
- a second cladding layer;
- at least one waveguide having a waveguide core; and
- an air-gap cladding layer engaging a portion of waveguide core, wherein the first cladding layer and the second cladding layer engage the waveguide.

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The underline limitations are critically, since the present of the air-gap cladding layers in an optical interconnect, allows for a maximization in relative index difference between the waveguide core and cladding layer region, permits tighter bends and increased waveguide density.

The Ukrainczyk (6,253,015) reference is closest reference, discloses first and second cladding layers but does not disclose the air-gap cladding layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONTACT INFORMATION

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHAN T.H. PALMER whose telephone number is 703-308-4848. The examiner can normally be reached on 4/4 OFF MONDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RODNEY B. BOVERNICK can be reached on 308-4819. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0956.

PTHP 05/11/04

> PHAN T. H, PALMER PRIMARY EXAMINER

Davi H. Palmer